

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



O1020 Single-layer oil glaze PROFIL OIL GLAZE

Creation date	05th January 2023	Version	4.0
Revision date	08th January 2026		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture
Number
UFI
- O1020 Single-layer oil glaze PROFIL OIL GLAZE mixture
O1020-A-: T0000, T0010, T0015, T0020, T0022, T0023, T0026, T0035, T0036, T0060, T0063, T0080, T0086, T0099
JMT5-0GJ3-W002-G1CC
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
PROFIL OIL LAZURE O1020 is intended for penetrating glazing coatings of wood, fiberboard and similar wooden substrates, mainly for outdoor use. It preserves the characteristic wood pattern and enhances it in color.
Main intended use
PC-PNT-2 Paints/coatings - Decorative
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
Exposure scenario is attached to the Safety Data Sheet.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name
Address
Identification number (CRN)
VAT number
Phone
Email
Web address
- COLORLAK, a.s.
Tovární 1076, Staré Město, 686 03
Czech Republic
49444964
CZ49444964
+420 572527111
colorlak@colorlak.cz
www.colorlak.cz
- Competent person responsible for the safety data sheet**
Name
Email
- Ing. Gabriela Kubíková
kubikova@colorlak.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Asp. Tox. 1, H304
Skin Sens. 1A, H317
Aquatic Chronic 3, H412

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

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Hazardous substances

hydrocarbons, C10-C13, n-alkanes, isoparaffins, cyclics, <2% aromatics
neodecanoic acid, cobalt salt
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Hazard statements

H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to be handing over to a person authorized to dispose of waste or a site designated by the town.

Supplemental information

EUH204 Contains isocyanates. May produce an allergic reaction.
EUH066 Repeated exposure may cause skin dryness or cracking.
Density 0.92-1 g/cm³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC 0,272 kg/kg
TOC 0,230 kg/kg
Dry matter 70 % weight
VOC limit value cat. A (e) SB: 400 g/l
Max. VOC content in the product in its ready to use condition 265 g/l

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

PROFIL OIL LAZURE O1020 is a solution of modified oils in organic solvents and additives pigmented with transparent metal oxides. Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-327-00-6 EC: 918-481-9 Registration number: 01-2119457273-39	hydrocarbons, C10-C13, n-alkanes, isoparaffins, cyclics, <2% aromatics	15-25	Asp. Tox. 1, H304 EUH066	4
CAS: 51274-00-1 EC: 257-098-5 Registration number: 01-2119457554-33	Iron hydroxide oxide yellow	≤9.2	not classified as dangerous	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1309-37-1 EC: 215-168-2 Registration number: 01-2119457614-35-0000	dliiron trioxide	≤4.9	not classified as dangerous	
CAS: 7631-86-9 EC: 231-545-4 Registration number: 01-2119379499-16	Silica, amorphous	2-5	not classified as dangerous	
EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	2-5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	2, 4
EC: 905-562-9 Registration number: 01-2119555267-33	reaction mass of ethylbenzene and m-xylene and p-xylene	3-4	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (central nervous system) Specific concentration limit: STOT RE 2, H373 (central nervous system): C ≥ 10 %	4
Index: 649-424-00-3 CAS: 64742-94-5 EC: 265-198-5 Registration number: 01-2119510128-50	Solvent naphtha (petroleum), heavy arom.	1-4	Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	4
Index: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 Registration number: 01-2119489370-35	ethylbenzene	1-2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs)	2
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤0.5		
CAS: 27253-31-2 EC: 248-373-0 Registration number: 01-2119970733-31	neodecanoic acid, cobalt salt	0.1-0.4	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 1, H372 (gastrointestinal tract) Aquatic Chronic 3, H412	4
CAS: 1065336-91-5 EC: 915-687-0 Registration number: 01-2119491304-40-0003	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≤0.11	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	4
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	≤0.05	Flam. Liq. 3, H226 STOT SE 3, H336	2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	≤0.05	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: STOT RE 2, H373 (central nervous system): C > 10 %	2, 4
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	≤0.04	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (**), H373	2, 3, 5
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	≤0.03	not classified as dangerous Specific concentration limit: ATE Oral = 5001 mg/kg bw ATE Inhalation (vapor) = 3,35 mg/l ATE Dermal = 9510 mg/kg bw	2
CAS: 1307863-78-0 EC: 263-186-4	Aminy, N-lůj alkyltrimethylendi-, oleáty	≤0.02	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 (gastrointestinal tract) Aquatic Acute 1, H400 (M=1 000) Aquatic Chronic 2, H411	
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	≤0.02	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2
Index: 615-006-00-4 CAS: 26471-62-5 EC: 247-722-4 Registration number: 01-2119454791-34	m-tolylidene diisocyanate	≤0.01	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Aquatic Chronic 3, H412 Specific concentration limit: Resp. Sens. 1, H334: C ≥ 0.1 %	1, 2, 3
Index: 601-052-00-2 CAS: 91-20-3 EC: 202-049-5	naphthalene	≤0.01	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	2
CAS: 77-58-7 EC: 201-039-8 Registration number: 01-2119496068-27	Dibutyltin dilaurate	≤0.001	Eye Irrit. 2, H319 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	3

Notes

** another exposure route cannot be ruled out

*** reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

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- 1 *Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*
- 2 *A substance for which exposure limits are set.*
- 3 *The use of the substance is restricted by Annex XVII of REACH Regulation*
- 4 *Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.*
- 5 *Drug precursor*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Cough, headache.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

If swallowed

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

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5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment. Manufacturer's recommendation: Dispose of absorbent materials contaminated with PROFIL OIL LAZURE O1020 safely - there is a risk of spontaneous combustion.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.

Content	Packaging type	Material of package
0,75 l	can / tin	FE
2,5 l	can / tin	FE
9 l	bucket	FE

Storage class

12 - Non-combustible liquids that cannot be assigned to any of the above storage classes

Storage temperature

+5 až +25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive (EU) 2019/1831

Substance name (component)	Type	Value
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	723 mg/m ³
	OEL 15 minutes	150 ppm

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
ethylbenzene (CAS: 100-41-4)	OEL 8 hours	442 mg/m ³

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
ethylbenzene (CAS: 100-41-4)	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	550 mg/m ³
	OEL 15 minutes	100 ppm
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³
	OEL 8 hours	50 ppm
	OEL 8 hours	270 mg/m ³
	OEL 8 hours	44,55 ppm

Notes

Skin.

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	384 mg/m ³
	OEL 15 minutes	100 ppm

Notes

Skin.

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	OEL 8 hours	1200 mg/m ³
	OEL 15 minutes	197 ppm
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³
	OEL 15 minutes	100 ppm
naphthalene (CAS: 91-20-3)	OEL 8 hours	50 mg/m ³
	OEL 8 hours	10 ppm

European Union

Directive (EU) 2024/869 of the European Parliament and of the Council

Substance name (component)	Type	Value
m-tolylidene diisocyanate (CAS: 26471-62-5)	OEL 8 hours	10 µg/m ³
	OEL 15 minutes	20 µg/m ³

Notes

The substance can cause sensitisation of the skin and of the respiratory tract.

As NCO.

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DNEL

(2-methoxymethylethoxy)propanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	283 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	308 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	121 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	37.2 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele

2-methoxy-1-methylethyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Consumers	Dermal	320 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	500 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Inhalation	33 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	796 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	550 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	275 mg/m ³	Chronic effects systemic	BL dodavatele

Aminy, N-lůj alkyltrimethylendi-, oleáty				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	0.29 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Dermal	0.04 mg/kg bw/day	Chronic effects systemic	BL dodavatele

carbon black				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	2 mg/m ³	Acute effects local	BL dodavatele

Dibutyltin dilaurate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	0.02 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	0.43 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Inhalation	0.0046 mg/m ³	Chronic effects systemic	ECHA
Consumers	Dermal	0.16 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	0.0031 mg/kg bw/day	Chronic effects systemic	ECHA

ethylbenzene				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	77 mg/m ³	Chronic effects systemic	echa
Workers	Dermal	180 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Inhalation	15 mg/m ³	Chronic effects systemic	echa
Consumers	Oral	1.6 mg/kg bw/day	Chronic effects systemic	echa

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hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	208 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	871 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	185 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	125 mg/m ³	Chronic effects systemic	BL dodavatele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	871 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Dermal	208 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Inhalation	185 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers (0)	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Oral	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele

Iron hydroxide oxide yellow

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	10 mg/m ³	Acute effects local	BL dodavatele

m-tolylidene diisocyanate

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	0.035 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	0.14 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	0.035 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	0.14 mg/m ³	Acute effects local	BL dodavatele

n-butyl acetate

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	300 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	300 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	100 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Dermal	11 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects local	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Acute effects systemic	BL dodavatele

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naphthalene				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	25 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Inhalation	0.25 mg/m ³	Chronic effects local	BL dodavatele
Workers (0)	Dermal	3.57 mg/kg	Chronic effects systemic	BL dodavatele

neodecanoic acid, cobalt salt				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	0.273 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	0.043 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Oral	0.032 mg/kg bw/day	Chronic effects systemic	BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1.27 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	1.8 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	0.31 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	0.9 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	0.18 mg/kg bw/day	Chronic effects systemic	BL dodavatele

reaction mass of ethylbenzene and m-xylene and p-xylene				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	77 mg/m ³	Chronic effects systemic	
Workers	Inhalation	289 mg/m ³	Acute effects systemic	
Workers	Dermal	180 mg/kg bw/day	Chronic effects systemic	
Consumers	Inhalation	14.8 mg/m ³	Chronic effects systemic	
Consumers	Dermal	108 mg/kg bw/day	Chronic effects systemic	
Consumers	Oral	1.6 mg/kg bw/day	Chronic effects systemic	
Consumers	Inhalation	174 mg/m ³	Acute effects systemic	

Silica, amorphous				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	4 mg/m ³	Chronic effects systemic	BL dodavatele

Solvent naphtha (petroleum), heavy arom.				
Workers / consumers	Route of exposure	Value	Effect	Source
Consumers (0)	Oral	18.8 mg/kg	Chronic effects systemic	BL dodavatele
Consumers (0)	Dermal	10 mg/cm ²	Chronic effects systemic	BL dodavatele
Consumers (0)	Dermal	10 mg/cm ²	Acute effects systemic	BL dodavatele
Consumers (0)	Inhalation	40 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Inhalation	40 ppm	Chronic effects systemic	BL dodavatele

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Technical xylene (mixed with ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	221 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic	BL dodavatele

toluene

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	192 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	192 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	384 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	226 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	8.13 mg/kg bw/day	Chronic effects systemic	BL dodavatele

PNEC

(2-methoxymethylethoxy)propanol

Route of exposure	Value	Source
Freshwater environment	19 mg/l	BL dodavatele
Marine water	1.9 mg/l	BL dodavatele
Water (intermittent release)	190 mg/l	BL dodavatele
Microorganisms in sewage treatment	4168 mg/l	BL dodavatele
Freshwater sediment	70.2 mg/kg of dry substance	BL dodavatele
Sea sediments	7.02 mg/kg of dry substance	BL dodavatele
Soil (agricultural)	2.74 mg/kg of dry substance	BL dodavatele

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Source
Freshwater environment	0.635 mg/l	BL dodavatele
Water (intermittent release)	6.35 mg/l	BL dodavatele
Marine water	0.064 mg/l	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Freshwater sediment	3.29 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.329 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.29 mg/kg of dry substance of soil	BL dodavatele

Aminy, N-lůj alkyltrimethylendi-, oleáty

Route of exposure	Value	Source
Freshwater environment	0.00638 mg/l	BL dodavatele
Marine water	0.000638 mg/l	BL dodavatele
Microorganisms in sewage treatment	98.6 mg/l	BL dodavatele

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Aminy, N-lůj alkyltrimethylendi-, oleáty

Route of exposure	Value	Source
Water (intermittent release)	0.00509 mg/l	BL dodavatele
Freshwater sediment	204 mg/kg	BL dodavatele
Sea sediments	20.4 mg/kg	BL dodavatele
Soil (agricultural)	9.93 mg/kg	BL dodavatele

carbon black

Route of exposure	Value	Source
Freshwater environment	5 mg/l	BL dodavatele
Marine water	5 mg/l	BL dodavatele

Dibutyltin dilaurate

Route of exposure	Value	Source
Freshwater environment	0.463 µg/l	ECHA
Marine water	0.0463 µg/l	ECHA
Microorganisms in sewage treatment	100 mg/l	ECHA
Food chain	0.2 mg/kg of food	ECHA

ethylbenzene

Route of exposure	Value	Source
Freshwater environment	100 µg/l	echa
Marine water	10-100 µg/l	echa
Water (intermittent release)	100 µg/l	echa
Microorganisms in sewage treatment	9.6 mg/l	echa
Freshwater sediment	13.7 mg/kg of dry substance of sediment	echa
Sea sediments	1.37 mg/kg of dry substance of sediment	echa
Soil (agricultural)	2.68 mg/kg of dry substance of soil	echa
Food chain	20 mg/kg of food	echa

m-tolylidene diisocyanate

Route of exposure	Value	Source
Freshwater environment	0.013 mg/l	BL dodavatele
Marine water	0.00125 mg/l	BL dodavatele
Microorganisms in sewage treatment	> 1 mg/l	BL dodavatele
Soil (agricultural)	> 1 mg/kg	BL dodavatele

n-butyl acetate

Route of exposure	Value	Source
Freshwater environment	0.18 mg/l	BL dodavatele
Marine water	0.018 mg/l	BL dodavatele
Freshwater sediment	0.981 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.0981 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0903 mg/kg of dry substance of soil	BL dodavatele

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naphthalene		
Route of exposure	Value	Source
Microorganisms in sewage treatment	2.9 mg/l	BL dodavatele
Marine water	2.4 µg/l	BL dodavatele
Water (intermittent release)	20 µg/l	BL dodavatele
Sea sediments	67.2 µg/kg	BL dodavatele
Soil (agricultural)	53.3 µg/kg	BL dodavatele
Freshwater environment	2.4 µg/l	BL dodavatele
Freshwater sediment	67.2 µg/kg	BL dodavatele

neodecanoic acid, cobalt salt		
Route of exposure	Value	Source
Freshwater environment	0.62 µg/l	BL dodavatele
Marine water	2.36 µg/l	BL dodavatele
Microorganisms in sewage treatment	0.37 mg/l	BL dodavatele
Freshwater sediment	53.8 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	69.8 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	10.9 mg/kg of dry substance	BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Route of exposure	Value	Source
Freshwater environment	0.0022 mg/l	BL dodavatele
Marine water	0.00022 mg/l	BL dodavatele
Freshwater sediment	1.05 mg/kg	BL dodavatele
Sea sediments	0.11 mg/kg	BL dodavatele
Soil (agricultural)	0.21 mg/kg	BL dodavatele
Microorganisms in sewage treatment	1 mg/l	BL dodavatele
Water (intermittent release)	0.009 mg/l	

reaction mass of ethylbenzene and m-xylene and p-xylene		
Route of exposure	Value	Source
Freshwater environment	327 µg/l	
Marine water	327 µg/l	
Microorganisms in sewage treatment	6.58 mg/l	
Sea sediments	12.46 µg/kg bw/24h	
Freshwater sediment	12.46 µg/kg bw/24h	

Technical xylene (mixed with ethylbenzene)		
Route of exposure	Value	Source
Freshwater environment	0.327 mg/l	BL dodavatele
Water (intermittent release)	0.327 mg/l	BL dodavatele
Freshwater sediment	12.46 mg/kg of dry substance of sediment	BL dodavatele
Marine water	0.327 mg/l	BL dodavatele
Sea sediments	12.46 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l	BL dodavatele

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Technical xylene (mixed with ethylbenzene)

Route of exposure	Value	Source
Soil (agricultural)	2.31 mg/kg of dry substance of soil	BL dodavatele

toluene

Route of exposure	Value	Source
Freshwater environment	0.68 mg/l	BL dodavatele
Water (intermittent release)	0.68 mg/l	BL dodavatele
Freshwater sediment	16.39 mg/kg of dry substance of sediment	BL dodavatele
Marine water	0.68 mg/l	BL dodavatele
Sea sediments	16.39 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	13.61 mg/l	BL dodavatele
Soil (agricultural)	2.89 mg/kg of dry substance of soil	BL dodavatele

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection



It is not needed.

Skin protection



Hand protection: Protective gloves resistant to the product (EN 374). Glove material: Nitrile rubber (EN 374). Recommended material thickness: min. 0.4 mm. Penetration time of the glove material $\geq$ 480 minutes (EN 374). No tests have been carried out, the resistance of the gloves must be tested before use. Find out the exact penetration time of the material from the glove manufacturer and observe it. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Nitrile (NBR)	$\geq$ 0.4 mm	>480 min	6

Respiratory protection



Mask with a filter against organic vapours in a poorly ventilated environment.

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Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless, white, black, red, brown, grey, yellow, mixture containing generic product identifier "colorant", by shades
Odour	after organic solvents
Melting point/freezing point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	-83 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
Dibutyltin dilaurate (CAS: 77-58-7)	16-18 °C (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	>1000 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	-95.15--94 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics,	<-20 °C (BL dodavatele)
<2% aromatics	
Iron hydroxide oxide yellow (CAS: 51274-00-1)	>1000 °C (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	9.5 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
naphthalene (CAS: 91-20-3)	79 °C (ECHA)
reaction mass of ethylbenzene and m-xylene and p-xylene	-39.3 °C (ECHA)
Silica, amorphous (CAS: 7631-86-9)	1700 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
toluene (CAS: 108-88-3)	-95 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	189.6 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145.8 °C (BL dodavatele)
Dibutyltin dilaurate (CAS: 77-58-7)	>200 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	136.1 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics,	160-245 °C (BL dodavatele)
<2% aromatics	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic,	154-193 °C (BL dodavatele)
<2% aromatics	
m-tolylidene diisocyanate (CAS: 26471-62-5)	252-254 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
naphthalene (CAS: 91-20-3)	218.2 °C (ECHA)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	>300 °C (BL dodavatele)
reaction mass of ethylbenzene and m-xylene and p-xylene	139.6 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
toluene (CAS: 108-88-3)	110.6 °C (BL dodavatele)
Flammability	flammable liquid of hazard class III (ČSN 65 0201)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
Lower and upper explosion limit	
bottom	0.6 % (for gasolines)

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(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	1.1 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0.7 % (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	0.9 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1.3 % (BL dodavatele)
upper	50 % (for butanone oxime)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	14 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	6 % (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	9.5 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)
Flash point	63 °C (PND EN 456)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	75 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45.5 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
Dibutyltin dilaurate (CAS: 77-58-7)	>180 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	22.85 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	>61 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	41 °C (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	132 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
naphthalene (CAS: 91-20-3)	78.5 °C (ECHA)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	209.5 °C (BL dodavatele)
reaction mass of ethylbenzene and m-xylene and p-xylene	18 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
toluene (CAS: 108-88-3)	4.4 °C (BL dodavatele)
Auto-ignition temperature	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	207 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	432 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	>200 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	237 °C (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	>595 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
naphthalene (CAS: 91-20-3)	540 °C (ECHA)
reaction mass of ethylbenzene and m-xylene and p-xylene	488 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
toluene (CAS: 108-88-3)	480 °C (BL dodavatele)
Decomposition temperature	data not available
Iron hydroxide oxide yellow (CAS: 51274-00-1)	180 °C (BL dodavatele)

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pH	non-soluble (in water)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	5-8 (5% solution) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.5-7.5 (0.005% solution) (BL dodavatele)
Kinematic viscosity	<20.5 mm ² /s at 40 °C
	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	4.55 mm ² /s at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.23 mm ² /s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1.02 mm ² /s at 40 °C (BL dodavatele)
	1.35 mm ² /s at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.83 mm ² /s at 20 °C (BL dodavatele)
Solubility in water	not miscible
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	>1000 g/l (25 °C) (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	198 g/l při 20°C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	200 mg/l při 25°C (echa)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	insoluble (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
naphthalene (CAS: 91-20-3)	31.7 mg/l při 25°C (ECHA)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	21.5-29.8 mg/l (21 °C) (BL dodavatele)
reaction mass of ethylbenzene and m-xylene and p-xylene	165.8 mg/l při 25°C (ECHA)
Silica, amorphous (CAS: 7631-86-9)	>1 mg/l (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	573-587 mg/l při 25 °C (BL dodavatele)
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	LogPow 0.63 to more than 4 (range of contained ingredients)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.2 (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	3.03-3.6 (echa)
naphthalene (CAS: 91-20-3)	3.7 (ECHA)
Technical xylene (mixed with ethylbenzene)	3.12-3.2 (BL dodavatele)
toluene (CAS: 108-88-3)	2.73 (BL dodavatele)
Vapour pressure	0.067 to 28.9 hPa at 20 °C (range of contained ingredients)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	0.037 kPa at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	3.60 at 20 °C (BL dodavatele)
Dibutyltin dilaurate (CAS: 77-58-7)	0.00077 hPa at 25 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	9.52-10.1 hPa at 20-25 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	<0.1 kPa at 20 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	20 hPa at 20 °C (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	<7 hPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	12-21 at 20 °C (literatura)
naphthalene (CAS: 91-20-3)	0.105 hPa at 25 °C (ECHA)
reaction mass of ethylbenzene and m-xylene and p-xylene	8.21 hPa at 20 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	6.50-9.44 hPa at 20 °C (BL dodavatele)
toluene (CAS: 108-88-3)	31 hPa at 20 °C (BL dodavatele)
Density and/or relative density	
Density	0.92-1 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.967 g/cm ³ at 20 °C (BL dodavatele)

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carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm ³ at 20 °C (BL dodavatele)
Dibutyltin dilaurate (CAS: 77-58-7)	1.03 g/cm ³ at 20 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	0.867-0.868 g/cm ³ at 20 °C (echa)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	0.751-0.851 g/cm ³ at 15 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0.78 g/cm ³ at 15 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.1 g/cm ³ at 20 °C (BL dodavatele)
m-tolylidene diisocyanate (CAS: 26471-62-5)	1.22 g/cm ³ at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm ³ at 20 °C (BL dodavatele)
naphthalene (CAS: 91-20-3)	1.085 g/cm ³ at 20 °C (ECHA)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	0.993 g/cm ³ at 20 °C (BL dodavatele)
reaction mass of ethylbenzene and m-xylene and p-xylene	0.86 g/cm ³ at 20 °C (ECHA)
Silica, amorphous (CAS: 7631-86-9)	2.2 g/cm ³ at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm ³ at 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	0.866 g/cm ³ at 20 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, transparently colored (depending on shade) low-viscosity liquid without mechanical impurities

9.2. Other information

Evaporation rate	data not available
Vapour density	> 1 (air = 1)
Combustion temperature	89 °C (ČSN EN ISO 2592)
Content of organic solvents (VOC)	0.272 kg/kg (calculation)
Total organic carbon (TOC)	0.230 kg/kg (calculation)
Solid content (dry matter)	70 % weight (manufacturer's methodology B5/TD1-12B)
VOC limit value	cat. A (e) SB: 400 g/l
Max. VOC content in the product in its ready to use condition	265 g/l (calculation)

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown. Dispose of materials contaminated with PROFIL OIL LAZURE O1020 safely - there is a risk of spontaneous combustion.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

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Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

O1020 Single-layer oil glaze PROFIL OIL GLAZE

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		37441 mg/kg				Calculation of value	
Dermal	ATE		29385 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		212.8 mg/l				Calculation of value	

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavatele
Dermal	LD ₅₀	OECD 402	9510 mg/kg		Rabbit			BL dodavatele
Inhalation (vapor)	LC ₅₀		275 ppm	7 hours	Rat			BL dodavatele
Inhalation	LC ₅₀	OECD 403	3.35 mg/l	7 hours	Rat (Rattus norvegicus)			BL dodavatele
Oral	ATE		5001 mg/kg bw					
Inhalation (vapor)	ATE		3.35 mg/l					
Dermal	ATE		9510 mg/kg bw					

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		6190 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

carbon black

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>8000 mg/kg		Rat			BL dodavatele
Inhalation	LC ₀		4.6 mg/m ³	4 hours	Rat			BL dodavatele
Inhalation	NOAEL		1.1 mg/m ³	13 weeks	Rat			BL dodavatele

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Dibutyltin dilaurate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		2071 mg/kg bw		Rat (Rattus norvegicus)			ECHA
Dermal	LD ₅₀		2000 mg/kg bw		Rat (Rattus norvegicus)			ECHA

diiron trioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat			BL dodavat ele

ethylbenzene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3500 mg/kg		Rat			
Dermal	LD ₅₀		17800 mg/kg		Rat			
Inhalation (vapor)	LC ₅₀		17400 mg/kg	4 hours	Rat			

hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
	EC ₅₀		5 mg/l of air	72 hours	Rat			ECHA
Dermal	LD ₅₀	OECD 402	>5000 mg/kg	72 hours	Rabbit			BL dodavat ele
Inhalation (vapor)	LC ₅₀	OECD 403	>5000 mg/m ³	4 hours	Rat			BL dodavat ele
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavat ele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavat ele
Inhalation	LC ₅₀	OECD 403	5000 mg/m ³	4 hours	Rat			BL dodavat ele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit			BL dodavat ele

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Iron hydroxide oxide yellow

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat			BL dodavatele
Inhalation (dust/mist)	LD ₅₀		>195 mg/m ³	2 weeks	Rat			BL dodavatele

m-tolylidene diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	5110 mg/kg		Rat (Rattus norvegicus)	M		BL dodavatele
Oral	LD ₅₀	OECD 401	4130 mg/kg		Rat (Rattus norvegicus)	F		BL dodavatele
Dermal	LD ₅₀	OECD 402	>9400 mg/kg		Rabbit	F/M		BL dodavatele
Inhalation	LC ₅₀	OECD 403	0.107 mg/l	4 hours	Rat (Rattus norvegicus)	F/M		BL dodavatele
Inhalation	LC ₅₀	OECD 403	0.47 mg/l	1 hour	Rat (Rattus norvegicus)	F/M		BL dodavatele

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 423	10726 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	14112 mg/kg bw		Rabbit			BL dodavatele
Inhalation	NOAEC	EPA OTS 798.2450	550 ppm	13 weeks	Rat (Rattus norvegicus)			BL dodavatele

naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		2300 mg/kg		Rat			BL dodavatele
Inhalation	LC ₅₀		5 mg/l	4 hours	Rat			BL dodavatele
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			BL dodavatele

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neodecanoic acid, cobalt salt

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 425	1098 mg/kg		Rat (Rattus norvegicus)	F		BL dodavatele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)	F/M		BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	3230 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>3170 mg/kg		Rat (Rattus norvegicus)			

reaction mass of ethylbenzene and m-xylene and p-xylene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat			ECHA
Inhalation (vapor)	LD ₅₀		6350 ppm	4 hours	Rat			ECHA
Dermal	LD ₅₀		12126 mg/kg bw		Rabbit			ECHA
Oral	NOAEL		150 mg/kg bw		Rat			ECHA
Oral	LOAEL		150 mg/kg bw		Rat			ECHA

Silica, amorphous

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rabbit			BL dodavatele
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavatele

Solvent naphtha (petroleum), heavy arom.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>2000 mg/kg		Rat			
Dermal	LD ₅₀		>2000 mg/kg		Rat			

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele

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Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Skin	LD ₅₀		12126 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	LD ₅₀		6700 ppm		Rat (Rattus norvegicus)			BL dodavatele

toluene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5580 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele
Skin	LD ₅₀		> 5000 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	STEL		100 ppm	15 minutes	Human			BL dodavatele

Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics

Route of exposure	Result	Method	Exposure time	Species	Source
Oral	Negative, Slightly irritating	OECD 404			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Result	Method	Exposure time	Species	Source
	Slightly irritating	OECD 404			BL dodavatele

neodecanoic acid, cobalt salt

Route of exposure	Result	Method	Exposure time	Species	Source
	Not irritating	OECD 404		Rabbit	BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating			Rabbit	BL dodavatele

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Irritation

m-tolylidene diisocyanate				
Route of exposure	Result	Exposure time	Species	Source
	Irritating, Highly irritating		Rabbit	BL dodavatele

Serious eye damage/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405			BL dodavatele

neodecanoic acid, cobalt salt					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Not irritating	OECD 405		Rabbit	BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Not irritating	OECD 405		Rabbit	BL dodavatele

Respiratory or skin sensitisation

May cause an allergic skin reaction.

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Negative					

neodecanoic acid, cobalt salt						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing	OECD 429		Mouse		BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing			Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

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Sensitization

m-tolylidene diisocyanate						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Positive	OECD 429		Mouse		BL dodavatele

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					BL dodavatele

neodecanoic acid, cobalt salt						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					BL dodavatele
Negative	OECD 475			Rat (Rattus norvegicus)		BL dodavatele

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)		OECD 453	18184.5 mg/m ³	2 years (6 hour/day)	Negative	Rat (Rattus norvegicus)	F/M	BL dodavatele

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Oral		OECD 453			Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 453			Negative			BL dodavatele

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m-tolylidene diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)		OECD 453			Tumor formation, No effect	Rat (Rattus norvegicus)	F/M	BL dodavatele

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 451	<75 ppm			Rat (Rattus norvegicus)		BL dodavatele

toluene

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 453	4522 mg/m ³ of air			Rat (Rattus norvegicus)		BL dodavatele
Inhalation (vapor)	LOAEC	OECD 453	2261 mg/m ³ of air			Rat (Rattus norvegicus)		BL dodavatele

Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 416	300 ppm			Rat (Rattus norvegicus)	F/M	BL dodavatele
Effects on fertility	NOEC	OECD 416	6061.35 mg/m ³			Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOEC		1818.4 mg/m ³	10 days (6 hour/day)		Rabbit		BL dodavatele

hydrocarbons, C10-C13, n-alkanes, isoparaffins, cyclics, <2% aromatics

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 413			Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 413			Negative			BL dodavatele

m-tolylidene diisocyanate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 416	<0.02 ppm		No effect	Rat (Rattus norvegicus)	F/M	BL dodavatele

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m-tolylidene diisocyanate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	NOAEL	OECD 414	0.1 ppm	21 days (6 hour/day)	No effect	Rat (Rattus norvegicus)	F	BL dodavatele

n-butyl acetate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	NOAEC	OECD 414	1500 ppm			Rabbit		BL dodavatele
Developmental toxicity	LOAEC	OECD 414	1500 ppm			Rat (Rattus norvegicus)		BL dodavatele
Effects on fertility	LOAEC	OECD 416	2000 ppm	90 days		Rat (Rattus norvegicus)		BL dodavatele

neodecanoic acid, cobalt salt

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 422	5 mg/kg bw		Negative	Rat (Rattus norvegicus)	F/M	BL dodavatele

Technical xylene (mixed with ethylbenzene)

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		≥500 ppm			Rat (Rattus norvegicus)		BL dodavatele

toluene

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		2261 mg/m ³ of air			Rat (Rattus norvegicus)		BL dodavatele

Toxicity for specific target organ - single exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Positive			BL dodavatele

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m-tolylidene diisocyanate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Inhalation			Irritating			BL dodavatele

Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Oral		OECD 408		Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
		OECD 408		Negative			BL dodavatele

neodecanoic acid, cobalt salt

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Oral				Positive			BL dodavatele

Repeated dose toxicity

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1000 mg/kg	4 weeks (7 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatele
Inhalation (vapor)	NOAEL		OECD 413	1232 mg/m ³	13 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatele
Dermal	NOAEL		OECD 411	2850 mg/kg	90 days (5 days/week)	Rabbit	M	BL dodavatele

Dibutyltin dilaurate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			0.3 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA

ethylbenzene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			75 mg/kg bw/day		Rat		echa
Inhalation	NOAEC			75 mg/kg bw/day		Rat		echa

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			500-5000 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEL			200 ppm		Rat		ECHA

m-tolylidene diisocyanate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation (vapor)	LOAEL		OECD 453	0.05 ppm		Rat (Rattus norvegicus)	F/M	BL dodavatel e

neodecanoic acid, cobalt salt

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 422	5 mg/kg	40-49 days (7 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatel e

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation	NOAEC			≥810 ppm		Dog		BL dodavatel e

toluene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 453	625 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Oral	LOAEL		OECD 453	1250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e

Aspiration hazard

May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Result	Exposure time	Species	Sex	Source
	Positive				BL dodavatele

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

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SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

(2-methoxymethylethoxy)propanol							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
LC ₅₀	OECD 202	1919 mg/l	48 hours	Daphnia (Daphnia magna)			BL dodavatele
ErC ₅₀	OECD 201	>969 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele
EC ₁₀		4168 mg/l	18 hours	Microorganisms (Pseudomonas putida)			BL dodavatele

2-methoxy-1-methylethyl acetate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		180 mg/l	96 hours	Algae (Selenastrum capricornutum)			BL dodavatele
EC ₅₀		500 mg/l	48 hours	Daphnia (Daphnia magna)			BL dodavatele

Aminy, N-lůj alkyltrimethylendi-, oleáty							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀		0.001-0.01 mg/l	48 hours	Daphnia		Analogous approach	BL dodavatele

carbon black							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Branchydanio rerio)			BL dodavatele
EC ₅₀	OECD 202	>5600 mg/l	24 hours	Daphnia (Daphnia magna)			BL dodavatele
EC ₅₀		>10000 mg/l	72 hours	Algae (Scenedesmus subspicatus)			BL dodavatele
EC ₀		≥800 mg/l	3 hours	Microorganisms	Activated sludge		BL dodavatele

Dibutyltin dilaurate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀		463 µg/l	48 hours	Aquatic invertebrates			ECHA

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Dibutyltin dilaurate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀		1 mg/l	72 hours	Algae and other aquatic plants			ECHA
EC ₅₀		1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)			ECHA

diiron trioxide							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		>1000 mg/l	48 hours	Fish (Leuciscus idus)			BL dodavatele

ethylbenzene							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		4.2-5.1 mg/l	96 hours	Fish (Oncorhynchus mykiss)			echa
EC ₅₀		1.8-2.4 mg/l	48 hours	Aquatic invertebrates			echa
EC ₅₀		3.6-7.7 mg/l	96 hours	Algae and other aquatic plants			echa
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)			echa

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LL _o		1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
EL _o		1000 mg/l	48 hours	Daphnia (Daphnia magna)			BL dodavatele
EL _o		1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EL ₅₀		>1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele
EL _o		1000 mg/l	48 hours	Daphnia (Daphnia magna (Hrotnatka velká))			BL dodavatele

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LL ₅₀		>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
NOELR		100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele

Iron hydroxide oxide yellow

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀		>10000 mg/l	3 hours	Bacteria (Salmonella typhimurium)	Fresh water		BL dodavatele
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water		BL dodavatele
LC ₀	OECD 203	>1000000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water		BL dodavatele

m-tolylidene diisocyanate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	133 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
EC ₅₀	OECD 202	12.5 mg/l	48 hours	Daphnia (Daphnia magna)			BL dodavatele
NOEC		1.1 mg/l	21 days	Daphnia (Daphnia magna)			BL dodavatele
ErC ₅₀	OECD 201	4300 mg/l	96 hours	Algae (Selenastrum capricornutum)			BL dodavatele
ErC ₅₀	OECD 201	3230 mg/l	96 hours	Algae (Selenastrum capricornutum)			BL dodavatele
EC ₅₀	OECD 209	>100 mg/l	3 hours	Bacteria (Salmonella typhimurium)			BL dodavatele
NOEC	OECD 207	>1000 mg/kg	14 days	Microorganisms (Photobacterium phosphoreum)			BL dodavatele
NOEC	OECD 208	>1000 mg/kg	14 days	Higher plants			BL dodavatele

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	18 mg/l	96 hours	Algae (Pimephales promelas)			BL dodavatele

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n-butyl acetate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀	OECD 203	44 mg/l	48 hours	Crustaceans (Daphnia magna)			BL dodavatele
EC ₅₀	OECD 203	674.7 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)			BL dodavatele
NOEC	OECD 203	200 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)			BL dodavatele

naphthalene							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		1.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
LC ₅₀		6.08 mg/l	96 hours	Fish (Pimephales promelas)			BL dodavatele
EC ₅₀		4.7 mg/l	48 hours	Daphnia (Daphnia magna)			BL dodavatele
EC ₅₀		2.96 mg/l	4 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele
EC ₁₀		>20 mg/l	18 hours	Bacteria (Pseudomonas putida)			BL dodavatele

neodecanoic acid, cobalt salt							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		85.3 mg/l	96 hours	Fish (Danio rerio)	Fresh water		BL dodavatele
LC ₅₀		429 mg/l	96 hours	Aquatic invertebrates (Chironomus sp. (Rod pakomáři))	Fresh water		BL dodavatele
EC ₅₀		71.3 mg/l	96 hours	Algae and other aquatic plants (Dunaliella tertiolecta (Rasa))	Salt water		BL dodavatele
EC ₁₀	OECD 209	3.73 mg/l	30 minutes	Microorganisms (Photobacterium phosphoreum)	Activated sludge		BL dodavatele

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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	0.9 mg/l	96 hours	Fish (Brachydanio rerio)			BL dodavatele
EC ₅₀	OECD 201	1.68 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)			BL dodavatele
EC ₂₀	OECD 209	100 mg/l	3 hours	Microorganisms	Activated sludge		BL dodavatele

reaction mass of ethylbenzene and m-xylene and p-xylene

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)			ECHA
EC ₅₀		2.2 mg/l	73 hours	Algae (Selenastrum capricornutum)			ECHA
IC ₅₀		1 mg/l	24 hours	Aquatic invertebrates			ECHA
LC ₅₀		2.6 mg/l	4 days	Fish (Oncorhynchus mykiss)			ECHA

Silica, amorphous

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	>10000 mg/l	96 hours	Fish (Danio rerio)			BL dodavatele
EC ₅₀	OECD 202	>1000 mg/l	24 hours	Daphnia (Daphnia magna)			BL dodavatele
EC ₅₀		120 mg/l	48 hours	Algae (Selenastrum capricornutum)			BL dodavatele
NOEC		60 mg/l	48 hours	Algae (Selenastrum capricornutum)			BL dodavatele

Solvent naphtha (petroleum), heavy arom.

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		1 - 10 mg/l	96 hours	Fish			
EC ₅₀		1 - 10 mg/l	48 hours	Daphnia			
IC ₅₀		1 - 10 mg/l	72 hours	Algae			

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Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	8.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)			BL dodavatele
IC ₅₀	OECD 202	4.7 mg/l	24 hours	Invertebrates			BL dodavatele
NOEC	OECD 201	0.44 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele
EC ₅₀	OECD 201	4.36 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)			BL dodavatele

toluene

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀		5.5 mg/l	96 hours	Fish (Oncorhynchus kisutch)			BL dodavatele
LC ₅₀		3.78 mg/l	2 days	Invertebrates (Ceriodaphnia dubia)			BL dodavatele
EC ₅₀		134 mg/l	3 hours	Algae (Chlorella vulgaris a Chlamydomonas angulosa)			BL dodavatele

Chronic toxicity

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatele
LOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatele

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	23 mg/l	21 hours	Crustaceans (Daphnia magna)		BL dodavatele

neodecanoic acid, cobalt salt

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		31802 µg/l		Fish (Cyprinodon variegatus (halančíkovec diamantový))	Salt water	BL dodavatele

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neodecanoic acid, cobalt salt						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		351.4 µg/l	96 hours	Fish (Pimephales promelas (střevle))	Fresh water	BL dodavatel e
EC ₁₀	OECD 211	7.55 µg/l		Aquatic invertebrates (Hyalella azteca (Různonožci))		BL dodavatel e

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	1 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel e

reaction mass of ethylbenzene and m-xylene and p-xylene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		960 µg/l		Aquatic invertebrates		ECHA
NOEC		1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)		ECHA

12.2. Persistence and degradability

Data for the mixture are not available.

Half-life time

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Route of exposure	Value	Value determination	Source
Drinking water	51 days		BL dodavatele

Biodegradability

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	75 %	28 days		Easily biodegradable	BL dodavatel e

2-methoxy-1-methylethyl acetate						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	83 %			Easily biodegradable	BL dodavatel e

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hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result	Source
Degradovaný podíl	OECD 301F	80 %	28 days	Fresh water	Easily biodegradable	BL dodavatel e

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result	Source
		80 %	28 days		Easily biodegradable	BL dodavatel e

m-tolylidene diisocyanate

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 302C	0 %	28 days		Not biodegradable	BL dodavatel e

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Parameter	Method	Value	Exposure time	Environment	Result	Source
					Hardly biodegradable	BL dodavatel e
DOC	OECD 301F	38 %	28 days			BL dodavatel e

12.3. Bioaccumulative potential

Data for the mixture are not available.

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
Log Pow	OECD 107	0.006			25°C	BL dodavatele

m-tolylidene diisocyanate

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
Log Pow		3.43			22°C	BL dodavatele

neodecanoic acid, cobalt salt

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
BCF		180-4000				BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
BCF		<9.7	8 days	Fish (Cyprinus carpio)		BL dodavatele

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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
Log Koc		5.31 mg/kg				BL dodavatele

toluene

Parameter	Method	Value	Exposure time	Species	Temperature [°C]	Source
		90		Fish (Oncorhynchus mykiss)		BL dodavatele

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty packaging can be used for energy recovery in a waste incinerator or disposed of at a landfill of the relevant category. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

Dibutyltin dilaurate

Restriction	Conditions of restriction
30	1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: “Restricted to professional users”. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

m-tolylidene diisocyanate

Restriction	Conditions of restriction
74	1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture (s). 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with

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m-tolylidene diisocyanate

Restriction	Conditions of restriction
	information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use". 3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks. 4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum: (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s). (b) the training elements in points (a) and (b) of paragraph 5 for the following uses: — handling open mixtures at ambient temperature (including foam tunnels); — spraying in a ventilated booth; — application by roller; — application by brush; — application by dipping and pouring; — mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore; — cleaning and waste; — any other uses with similar exposure through the dermal and/or inhalation route; (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses: — handling incompletely cured articles (e.g. freshly cured, still warm); — foundry applications; — maintenance and repair that needs access to equipment; — open handling of warm or hot formulations (> 45 °C); — spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); — and any other uses with similar exposure through the dermal and/or inhalation route. 5. Training elements: (a) general training, including on-line training, on: — chemistry of diisocyanates; — toxicity hazards (including acute toxicity); — exposure to diisocyanates; — occupational exposure limit values; — how sensitisation can develop; — odour as indication of hazard; — importance of volatility for risk; — viscosity, temperature, and molecular weight of diisocyanates; — personal hygiene; — personal protective equipment needed, including practical instructions for its correct use and its limitations; — risk of dermal contact and inhalation exposure; — risk in relation to application process used; — skin and inhalation protection scheme; — ventilation; — cleaning, leakages, maintenance; — discarding empty packaging; — protection of bystanders; — identification of critical handling stages; — specific national code systems (if applicable); — behaviour-based safety; — certification or documented proof that training has been successfully completed (b) intermediate level training, including on-line training, on: — additional behaviour-based aspects; — maintenance; — management of change; — evaluation of existing safety instructions; — risk in relation to application process used; — certification or documented proof that training has been successfully completed (c) advanced training, including on-line training, on:

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m-tolylidene diisocyanate

Restriction	Conditions of restriction
	— any additional certification needed for the specific uses covered; — spraying outside a spraying booth; — open handling of hot or warm formulations (> 45 °C); — certification or documented proof that training has been successfully completed 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met. 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design. 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years. 9. Member States shall include in their reports pursuant to Article 117(1) the following information: (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law; (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates; (c) national exposure limits for diisocyanates, if there are any; (d) information about enforcement activities related to this restriction. 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

toluene

Restriction	Conditions of restriction
48	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.

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H372	Causes damage to the gastrointestinal tract through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H373	May cause damage to the gastrointestinal tract through prolonged or repeated exposure.
H373	May cause damage to the hearing organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0 % of the population
EC ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₂₀	Concentration of a substance when it is affected 20 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₀	Effective Loading for 0 % of the tested organisms
EL ₅₀	Effective Loading for 50 % of the tested organisms
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

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IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₀	Lethal Loading for 0 % of tested organisms
LL ₅₀	Lethal Loading for 50 % of tested organisms
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
Muta.	Germ cell mutagenicity
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from Sunday, 2 February 2025. Changes were made in sections 2, 4, 5, 6, 8, 9, 10, 11 and 16.

More information

Classification procedure - calculation method.

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Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Příloha bezpečnostního listu pro výrobek: Rozpouštědlová nátěrová hmota

1. Expoziční scénář: Průmyslové použití

Sektor použití : SU3
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC10, PROC13, PROC 15
Uvolňování výrobku do životního prostředí : ERC4

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě +5 až 25°C
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v uzavřeném systému	PROC1 Použití v rámci uzavřeného výrobního procesu	Nevyžadováno
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8b PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v specializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a životního prostředí	PROC5 míchání nebo směšování v dávkových procesech při výrobě směsí	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Aplikace stříkáním	PROC7 průmyslové nástřikové techniky	Robotický nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzívně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2.
Ruční aplikace nátěrových hmot válečkem, štětkou, stěrkou	PROC10 aplikace válečkem, štětkou nebo stěrkou	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Kontinuální postupy sušení a vytvrzování nátěrových hmot za zvýšené teploty v sušicích tunelech s odsáváním par	PROC2 použití v rámci nepřetržitého chemického výrobního procesu s příležitostnou kontrolovanou expozicí (např. odběr	Nevyžaduje další opatření na omezení rizik.

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
	vzorků)	
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Strojní čištění a promývání uzavřených nádrží, zásobníků a zařízení vybavených odsáváním par	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu).
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy.

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Při nanášení barvy stříkáním odstraňovat ze vzduchu odtahovaného z pracovních prostor úlet aerosolu barvy. Při překročení limitů spotřeby rozpouštědel stanovených vyhláškou využívat postupy rekuperace rozpouštědel z odpadního vzduchu nebo jinými postupy zaručujícími dodržení emisních parametrů stanovených předpisy pro ochranu ovzduší.
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.

2. Expoziční scénář: profesionální použití

Sektor použití : SU22
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC 15, PROC19
Uvolňování výrobku do životního prostředí : ERC8a, REC8d

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě +5 až 25°C s výjimkou sušení nebo vytvrzování filmu za zvýšené teploty
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.

Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním, popř. venkovní prostředí.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Uvnitř budov: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: zajistit úkapy nátěrových hmot.
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a	PROC5 míchání nebo směšování	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
životního prostředí	v dávkových procesech při výrobě směsí	Venku: činnosti vykonávat nejdéle 4hod./den bez potřeby dalších opatření, nebo používat ochranu dýchacích orgánů s filtrem typu A.
Aplikace stříkáním	PROC11 neprůmyslové nástřikové techniky	Uvnitř: nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzivně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2. Venku: použití polomasky nebo masky s filtrem typu A/P2.
Ruční aplikace nátěrových hmot válečkem, štětcem, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: používat ochranu dýchacích orgánů s filtrem typu A.
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Uvnitř: Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Činnosti, při kterých dochází k přímému kontaktu s výrobkem bez použití pracovního nástroje	PROC19 ruční mísení s úzkým kontaktem za použití OOPP	Uvnitř: rukavice, místní odsávání nebo dobré větrání Venku: rukavice
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy. Uvnitř: dobré větrání (3 – 5 výměn vzduchu za hodinu).

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Nejsou požadována žádná zvláštní opatření
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.